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**Figure 1**

## **Protein-Coated DNA Vaccines**

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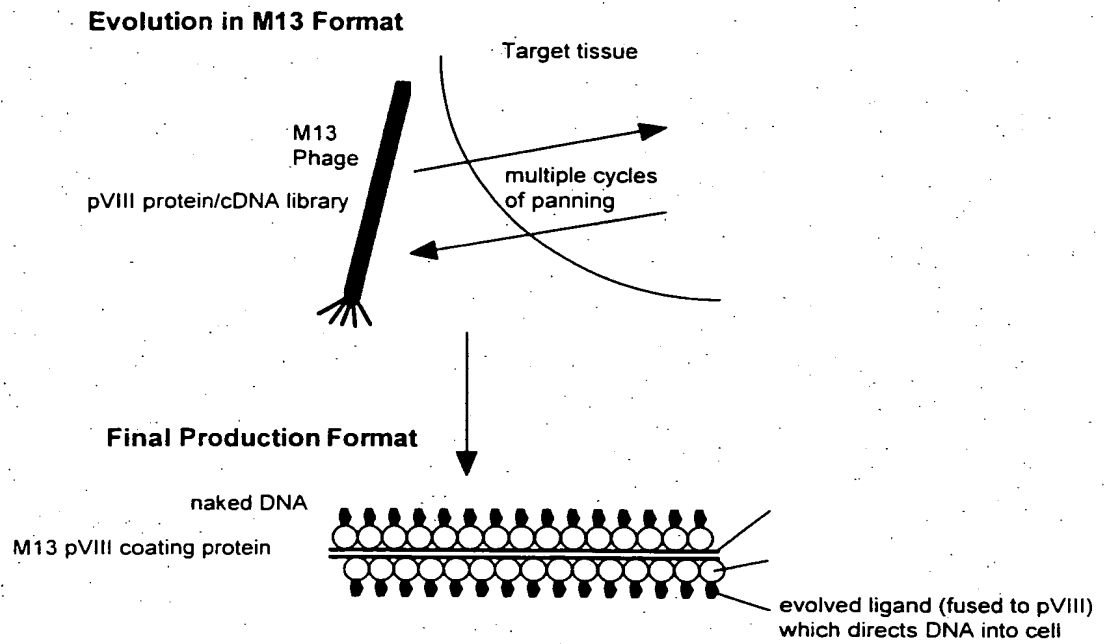


Figure 2

## M13 Evolved for Oral Delivery

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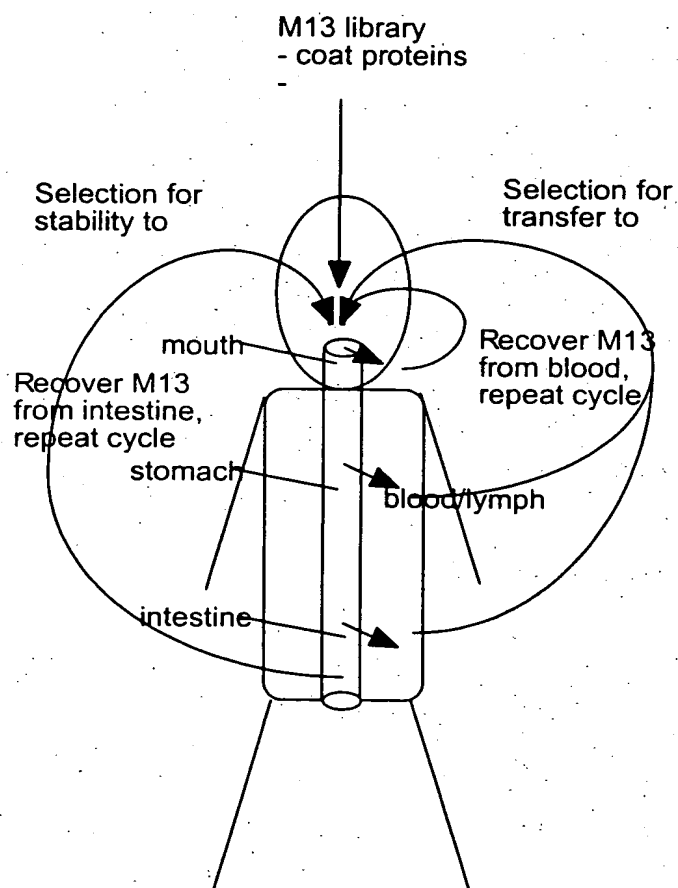


Figure 3: Alignment of bacterial enterotoxin DNA sequences illustrating the feasibility of family shuffling.

E. coli enterotoxin B	1	60
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	61	120
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	121	180
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	181	240
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	241	300
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	301	360
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		
E. coli enterotoxin B	361	375
E. coli enterotoxin B (porcine)		
Cholera toxin SubB DNA-seq		

ATGAATAAAGTAAATGTTATGTTTATTTACGGCGTTACTATCCTCTCTATGTGCATAC  
 ATGAATAAAGTAAATGTTATGTTTATTTACGGCGTTACTATCCTCTCTATGTGCACAC  
 ATGATTAAATTAAATTTGGTGTGTTTTTTTACAGTTTACTATCTTCAGCATATGCACAT  
 GGAGCTCCCCAGTCTATTACAGAACTATGTTCGGAATATCGCAACACACAAATATATACG  
 GGAGCTCCCCAGACTATTACAGAACTATGTTCGGAATATCGCAACACACAAATATATACG  
 GGAACACCTCAAAATATTACTGATTTGTGTGCAGATACCAACACACACAAATATACATACG  
 ATAAATGACAAGATACTATCATATACGGAATCGATGGCAGGCAAAAGAGAAATGGTTATC  
 ATAAATGACAAGATACTATCATATACGGAATCGATGGCAGGCAAAAGAGAAATGGTTATC  
 CTAAATGATAAGATATTTTCGTATACAGAACTCTCTAGCTGGAATAAGAGAGATGGCTATC  
 ATTACATTTAAGAGCGGCGCAACATTTTCAGGTGGAAGTCCCGGGCAGTCAACATATAGAC  
 ATTACATTTAAGAGCGGCGCAACATTTTCAGGTGGAAGTCCCGGGCAGTCAACATATAGAC  
 ATTACTTTTAAGAAATGGTGCAACTTTTCAAGTAGAAGTACCAGGTAGTCAACATATAGAT  
 TCCCAAAAAAAGCCATTGAAAGGATGAAGGACACATTAAAGAAATCACAATCTGACCCGAG  
 TCCCAAAAAAAGCCATTGAAAGGATGAAGGACACATTAAAGAAATCACAATCTGACCCGAG  
 TCACAAAAAAGCGATTGAAAGGATGAAGGATACCTGAGGATTGCATATCTTACTGAA  
 ACCAAAATTGATAAATTATGTGTATGGAATAATAAAACCCCAATTCAATTGCGGCAATC  
 ACCAAAATTGATAAATTATGTGTATGGAATAATAAAACCCCAATTCAATTGCGGCAATC  
 GCTAAAGTCGAAAAGTTATGTGTATGGAATAATAAAACGCCTCATGCGATTGCCGCAATT  
 AGTATGGAAAACTAG  
 AGTATGGAAAACTAG  
 AGTATGGCAAAATTAA

**Figure 4A**

Generation of human dendritic cells from blood monocytes by culture in the presence of IL-4 and GM-CSF for seven days; phenotype of the cells before and after the culture.

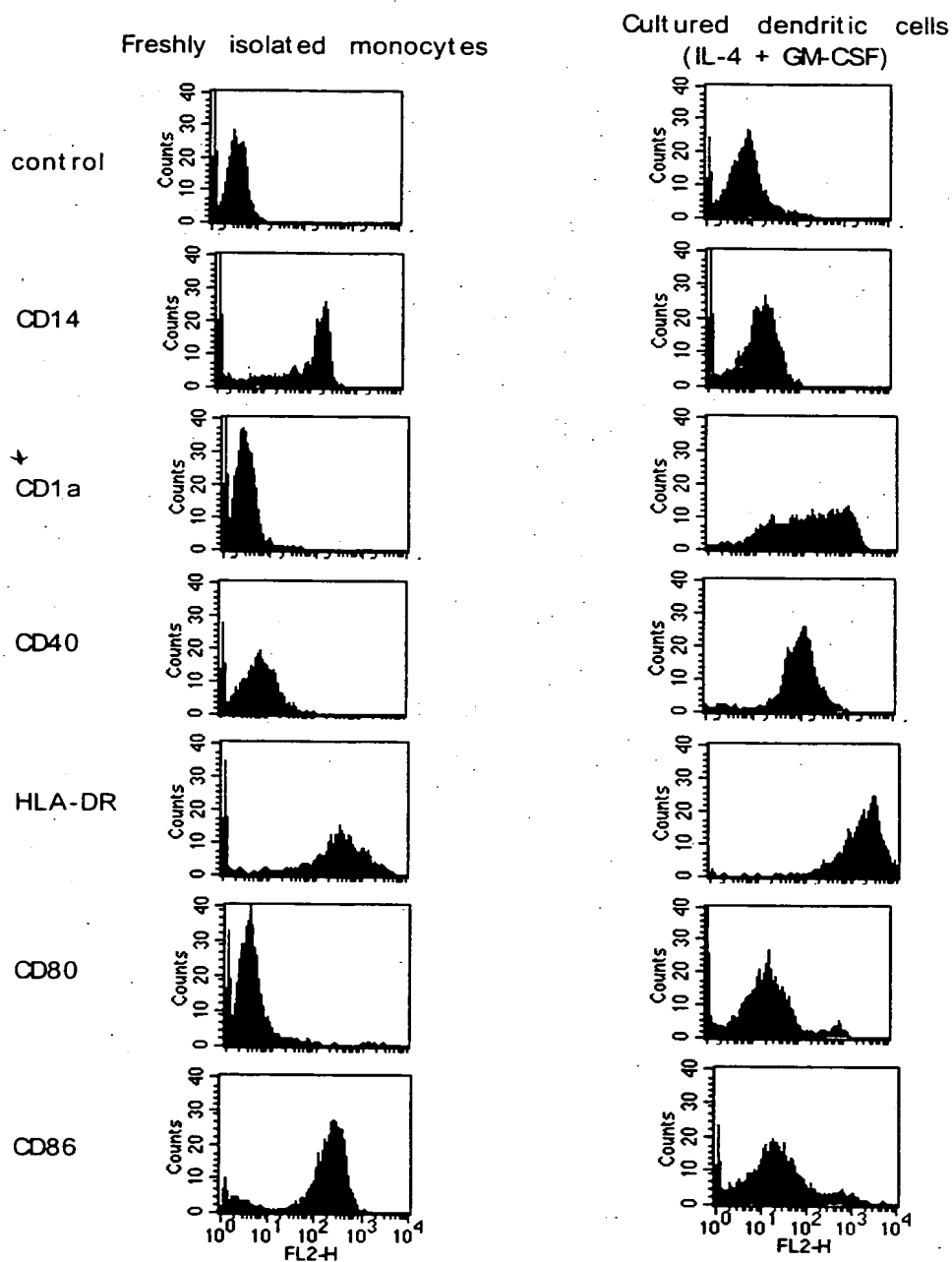
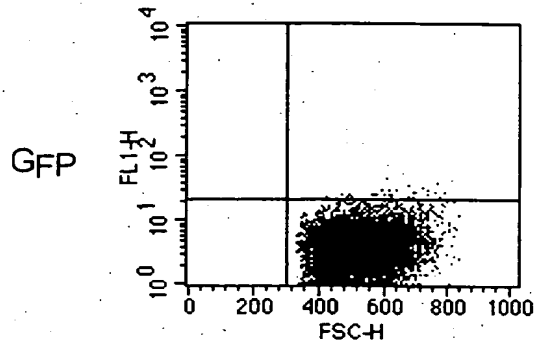


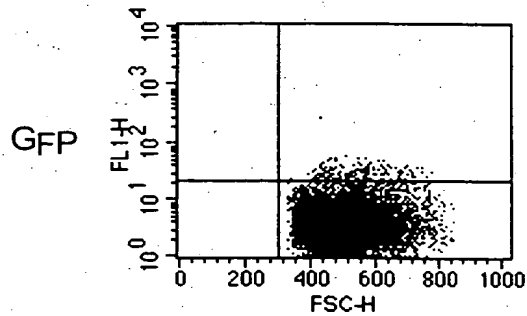
Figure 4B

Transfection of cultured dendritic cells by a plasmid encoding GFP and analysis by flow cytometry.



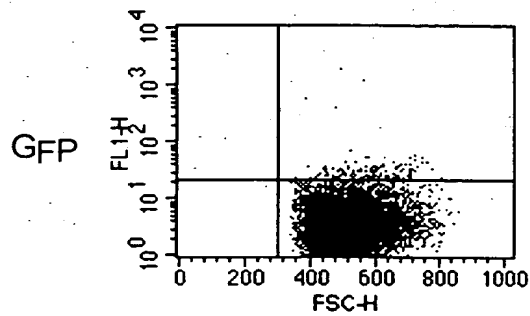
non-transfected

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	34	0.34	0.34
LL	0	0.00	0.00
LR	9966	99.66	99.66



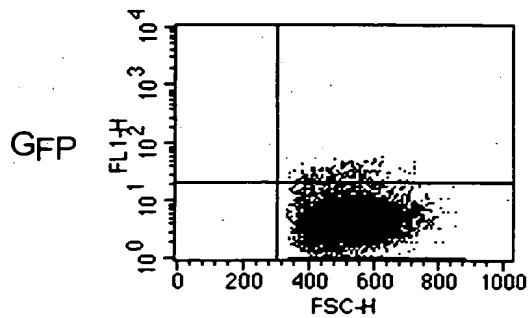
DOTAP 20ul

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	155	1.55	1.55
LL	0	0.00	0.00
LR	9845	98.45	98.45



DOTAP 30ul

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	139	1.39	1.39
LL	0	0.00	0.00
LR	9861	98.61	98.61



Superfect

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	164	1.64	1.64
LL	0	0.00	0.00
LR	9836	98.36	98.36